

Figure 1a

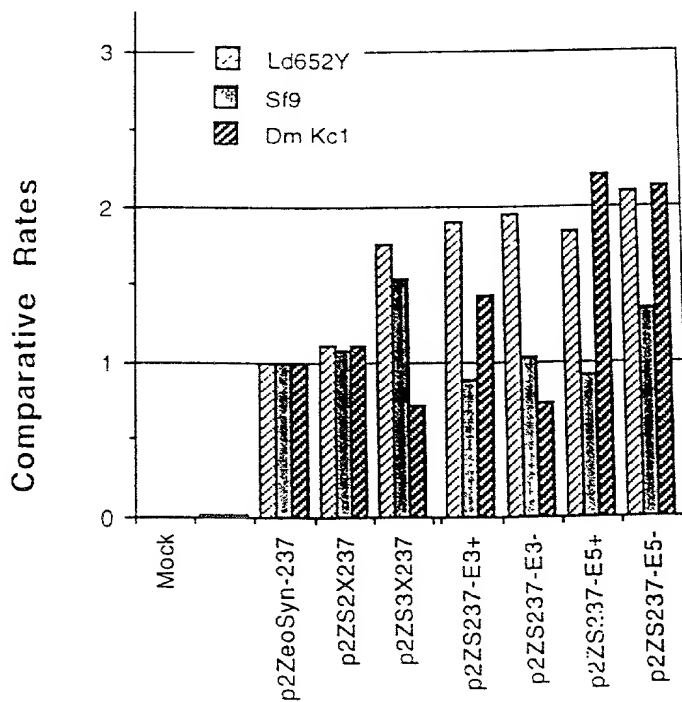
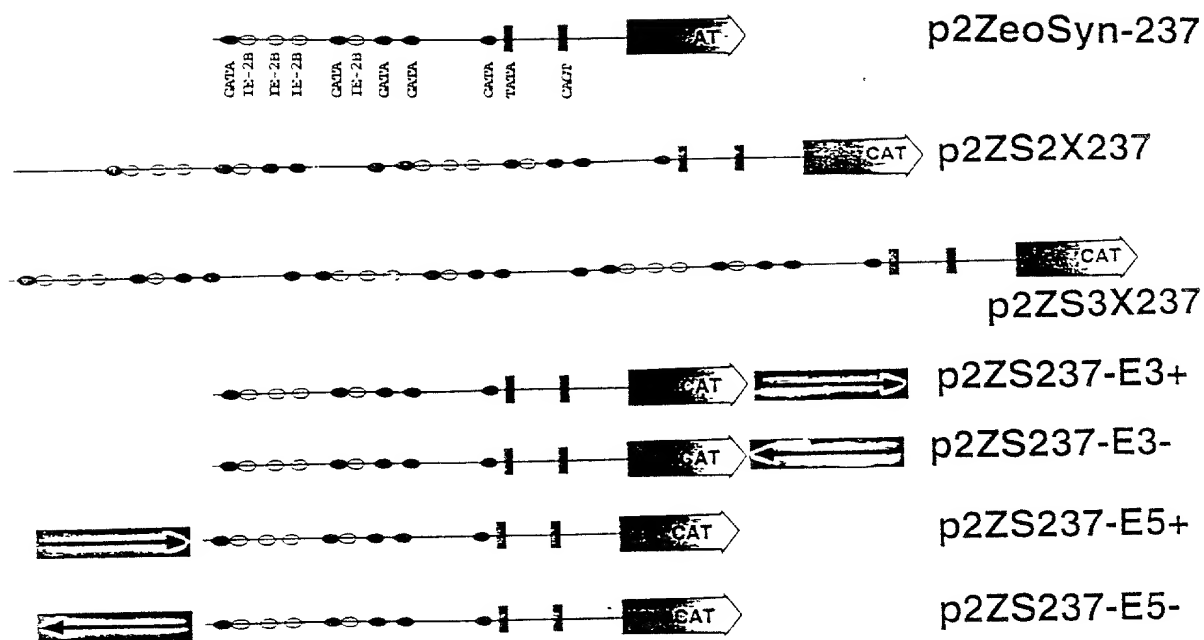
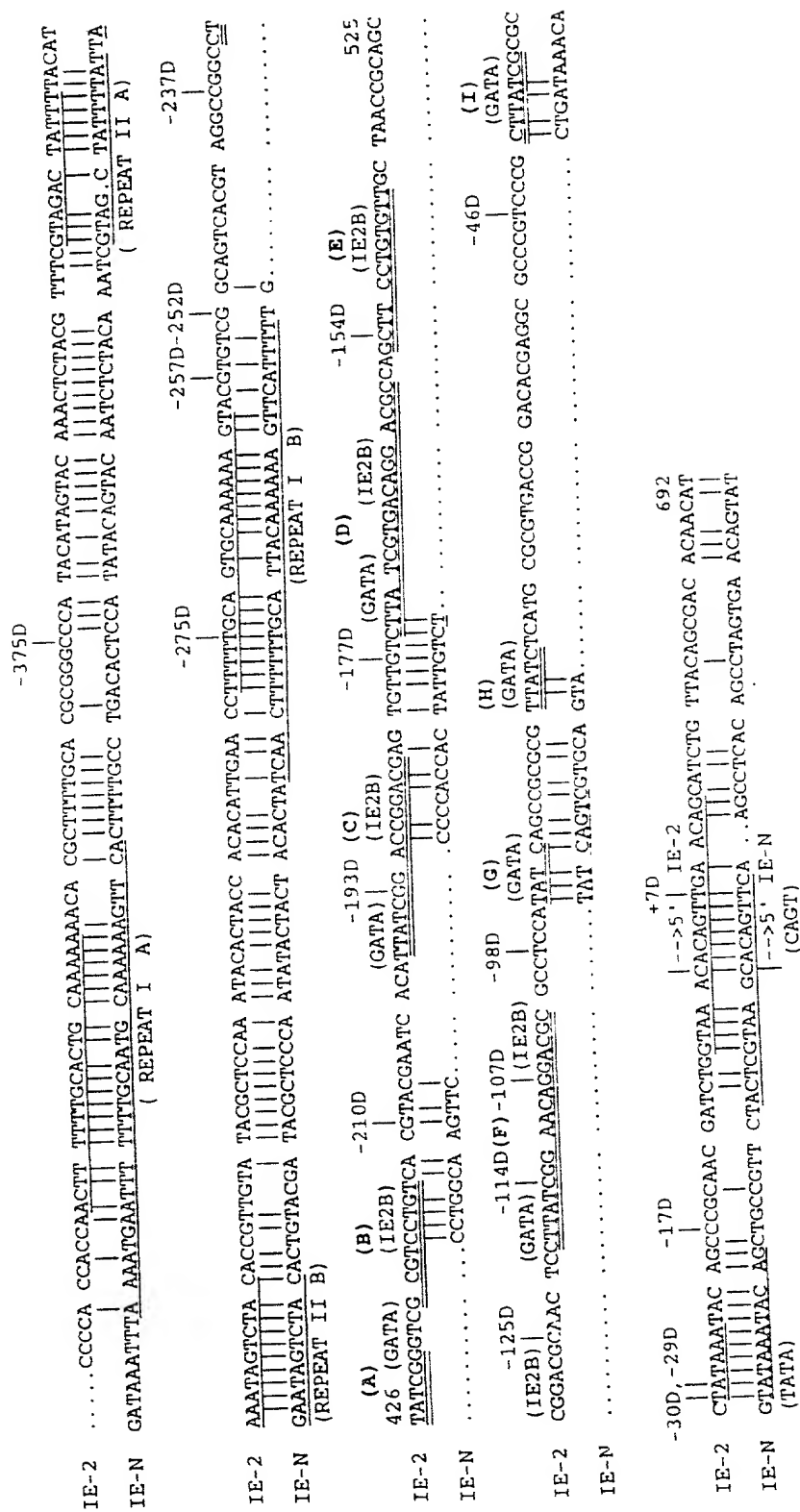


Figure 1b



# THE "BEE" BEES

A	-232	C	T	T	A	T	C	G	G	G	A	C	A	G	G	A	C	G	C	-225
B	-212R										G	A	C	A	G	G	A	C	G	-221R
C	-197	T	T	A	T	C	C	G	G	G	A	C	C	G	G	A	C	G	C	-191
D	-175	C	T	T	A	T	C	G	T	G	A	C	A	G	G	A	C	G	C	-162
E	-147R									A	A	C	A	G	G	A	A	G	C	-157R
F	-118	C	T	T	A	T	C	G	G	A	A	C	A	G	G	A	C	G	C	-101
G	-93																			-89
H	-80																			-76
I	-40	C	T	T	A	T	C	C	G											-34
Consensus		C	T	T	A	T	C	G	G	-	A	C	A	G	G	A	C	G	C	

Figure 2b

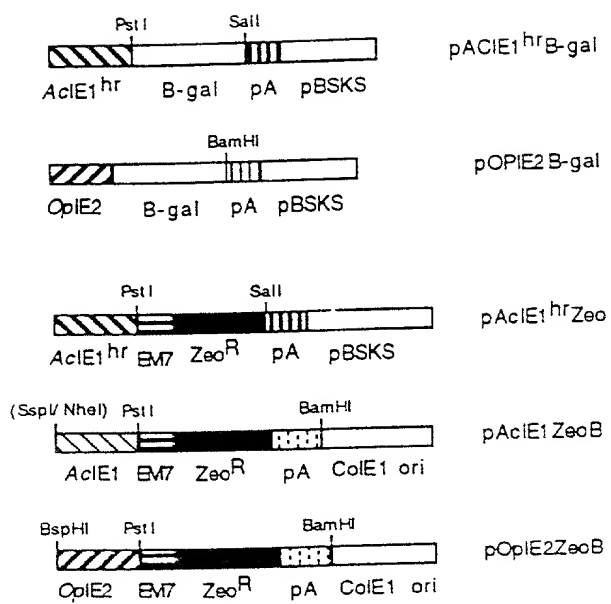


Figure 3

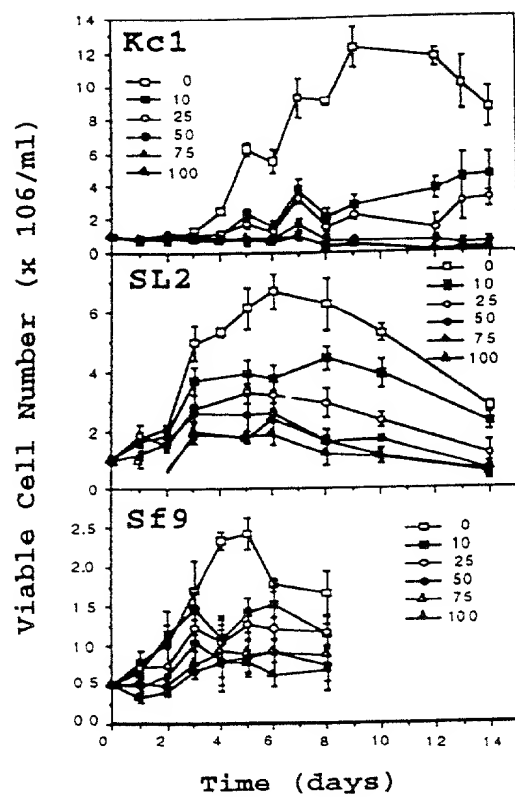


Figure 4a

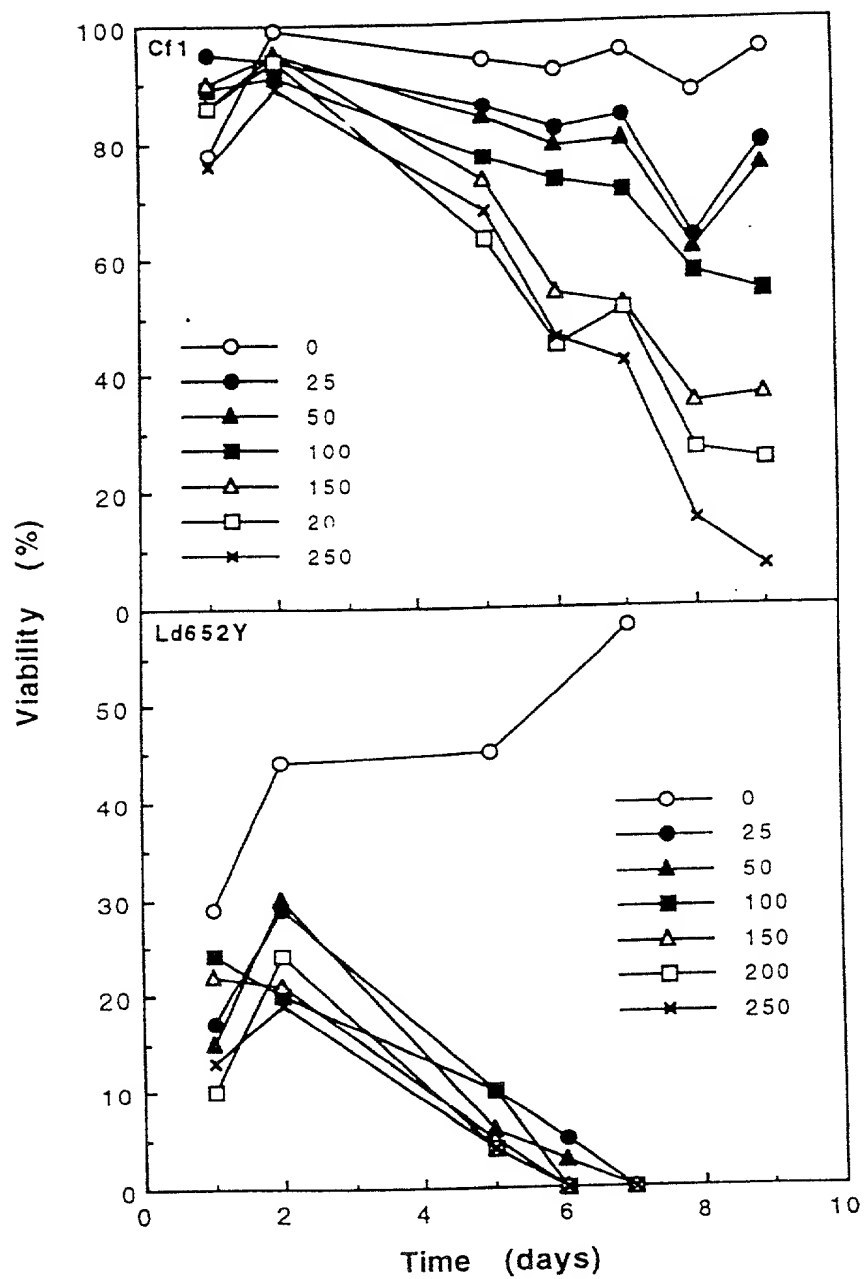


Figure 4b

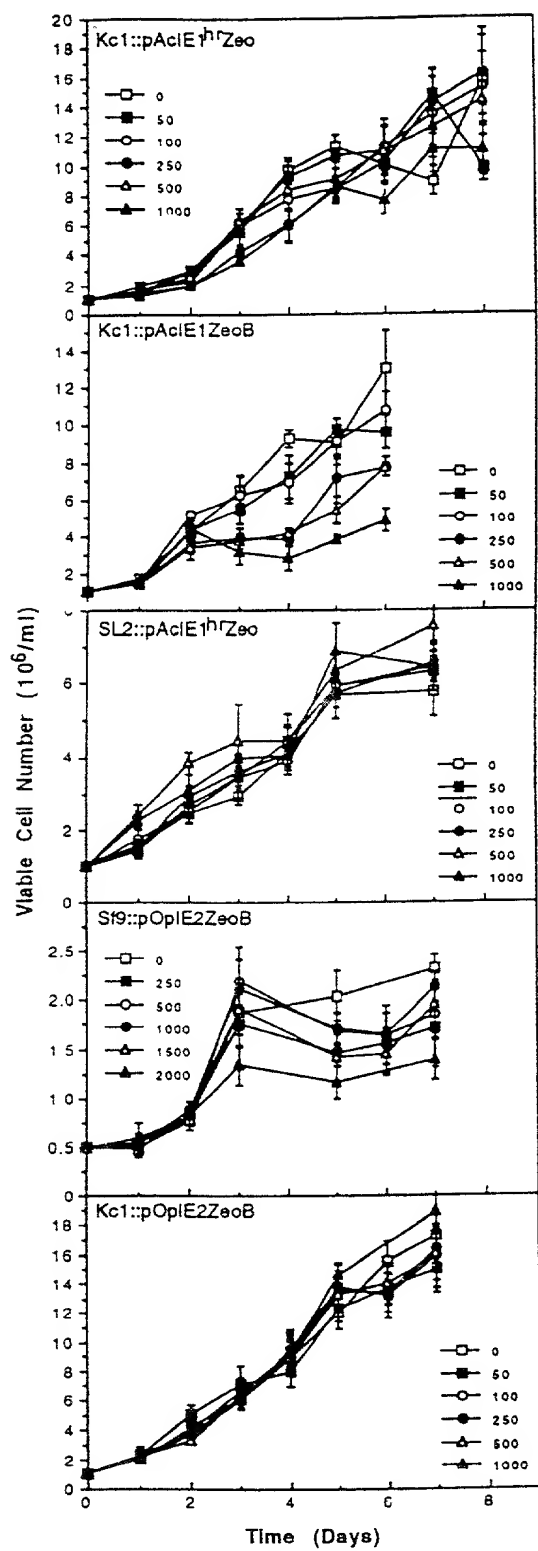


Figure 5



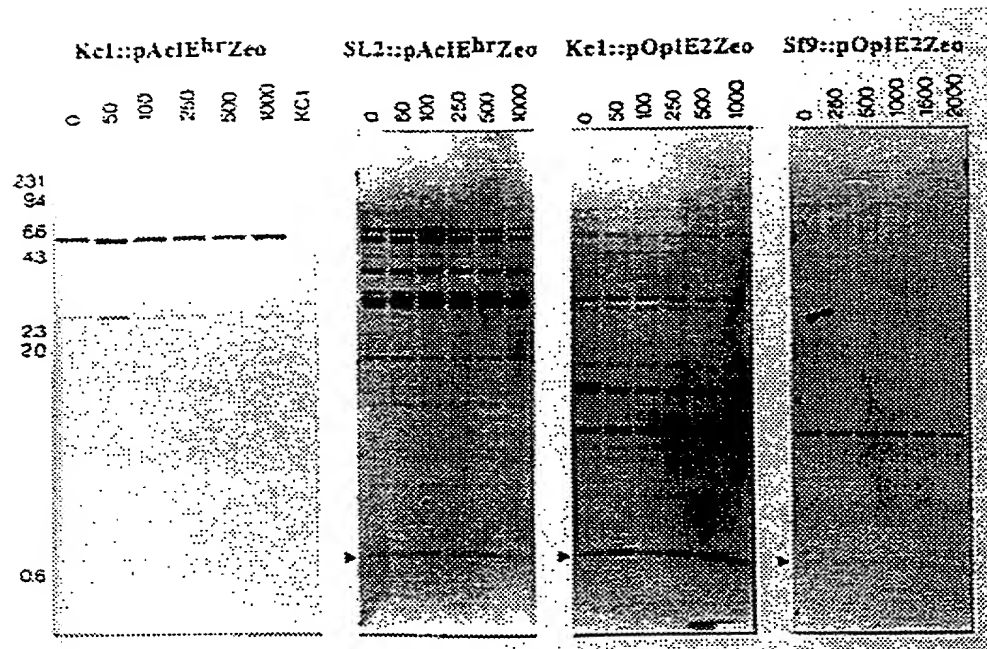


Figure 6

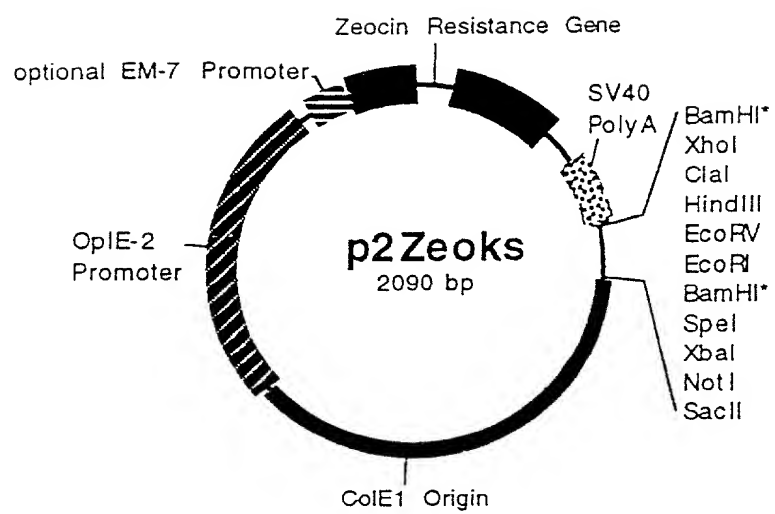


Figure 7

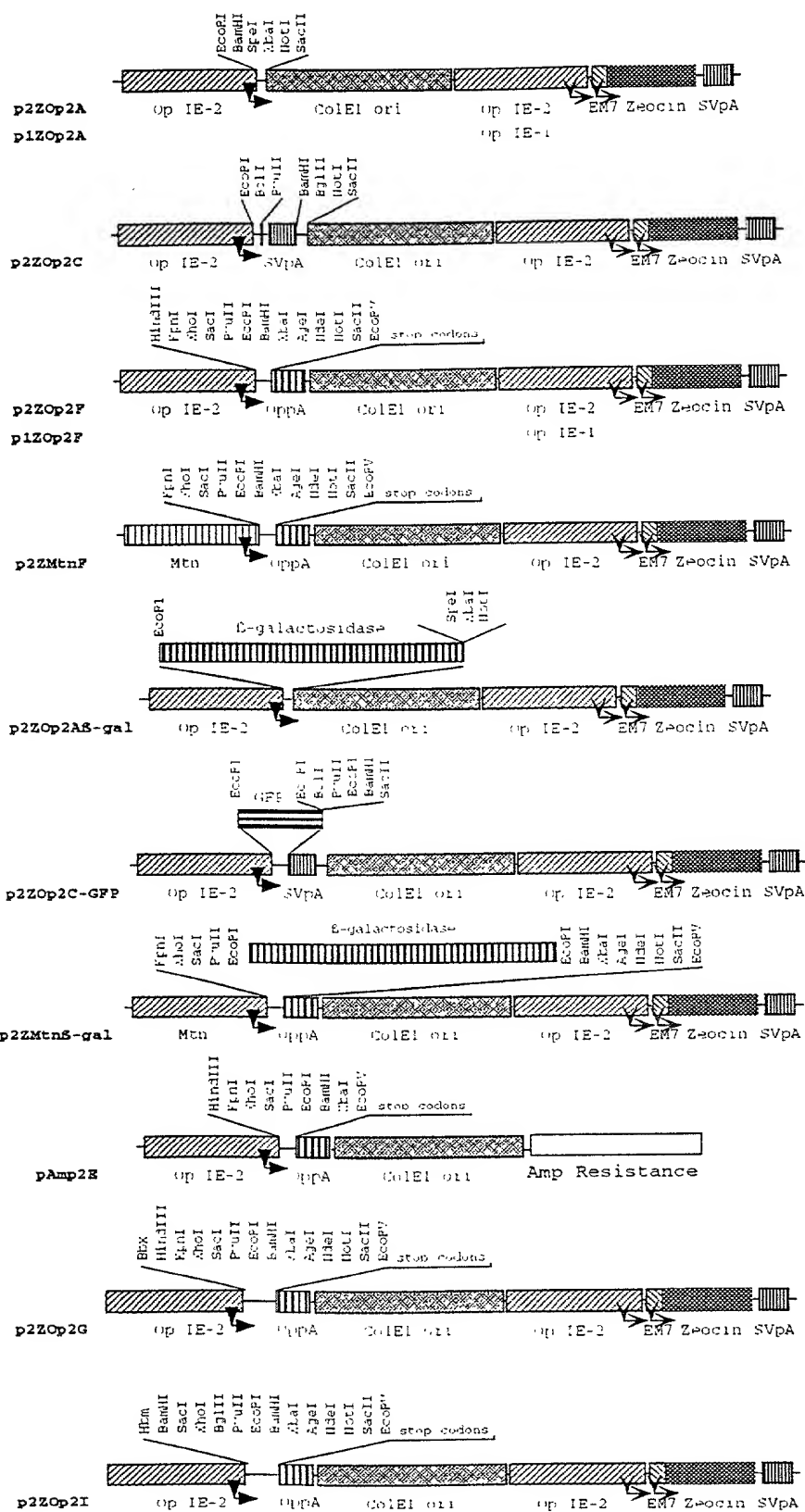


Figure 8a

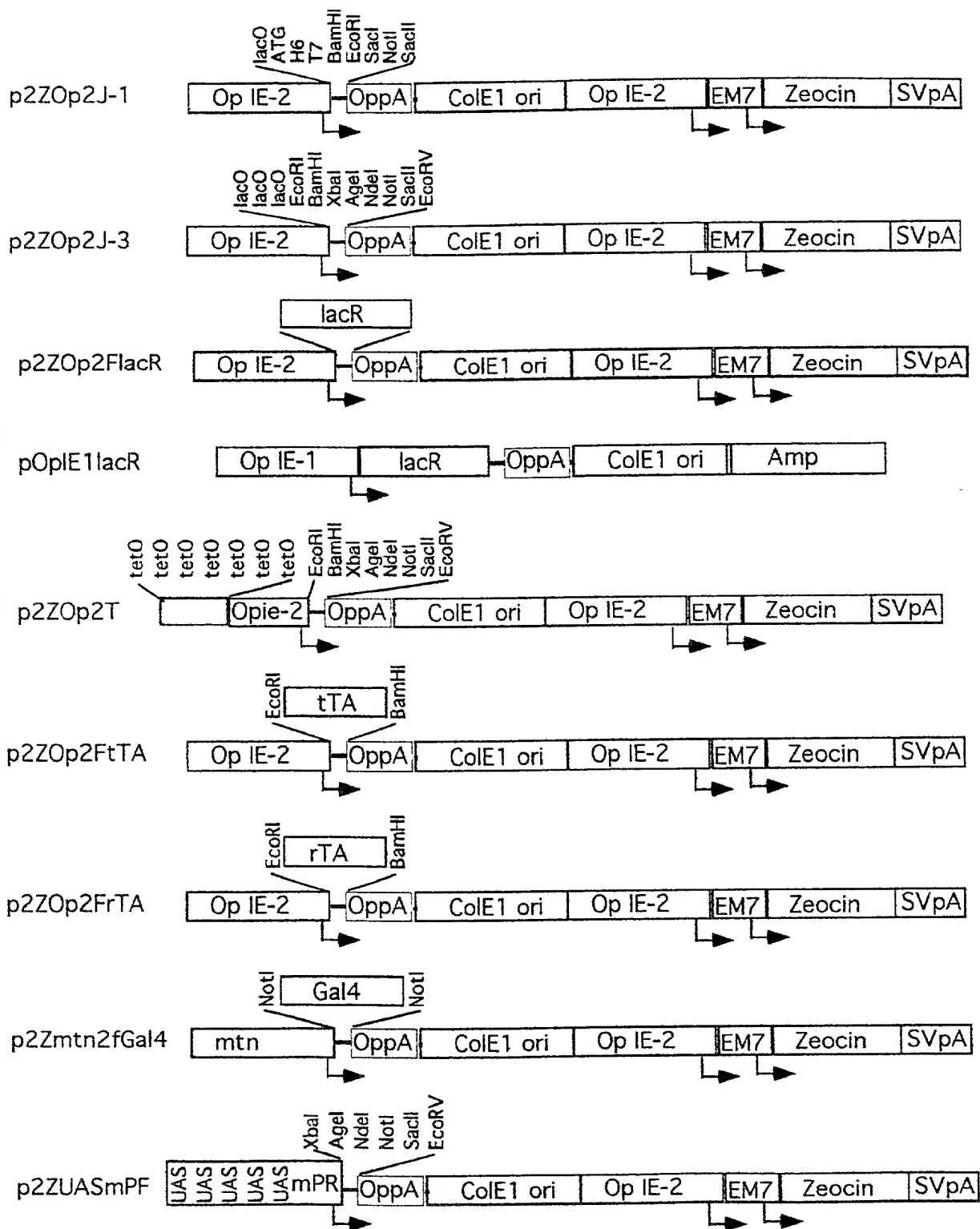


Figure 8b

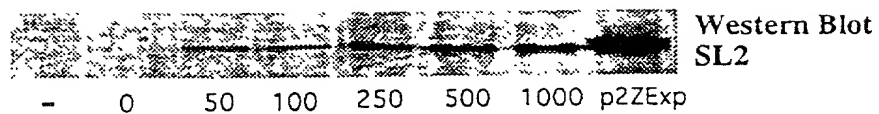
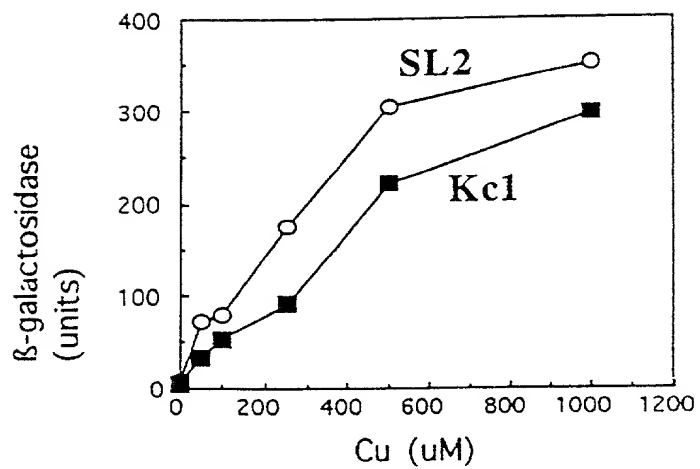


Figure 9

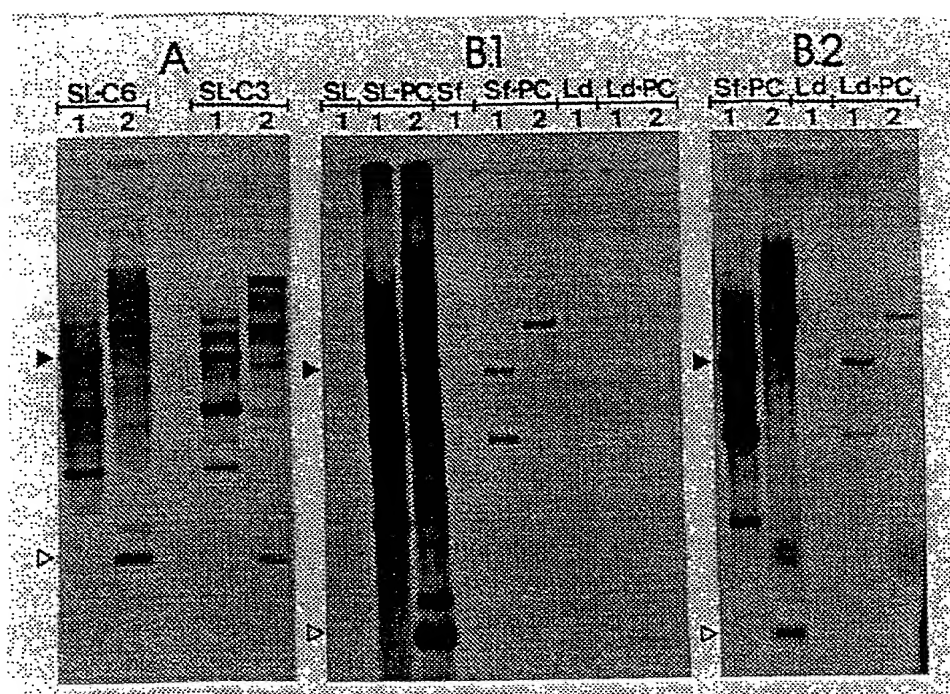
[illegible]

Figure 10

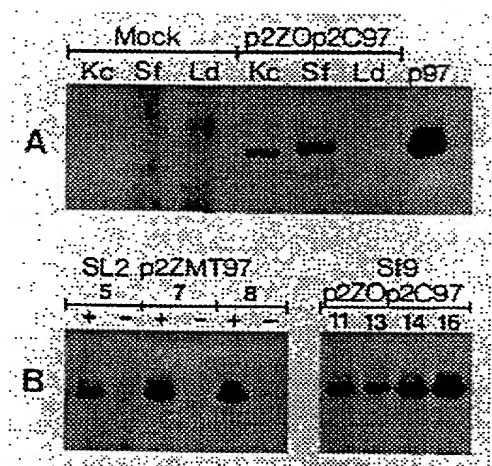


Figure 11



Figure 12 a



p87	GAC TAC GTG GCG CGC CTG GAA GGG ATG TCG TTCT CAG CAG TTC TCQ GGC GCA GCG GGC CGS CGC CGT CTC CGC GTC CGC CCC CTC TGA D Y V A A L E G M S Q Q C S G A A P A P G A P L L P L L P A L A R L P P A L *
120.7	GAC TAC GTG GCG CGC CTG GAA GGG ATG TCG TTCT CAG CAG TTC TCQ GGC GCA GCG GGC CGS CGC CGT CTC ATT TGA D Y V A A L E G M S S Q Q C S G A A P A P G A P L I *
150.2	GAC TAC GTG GCG CTG GAA GGG ATG TCG TTCT CAG CAG TTC TCQ GGC GCA GCG GGC CGC CGT CTC ATT TGA D Y V A A L E G M S S Q Q C S G A A P A P G A P L S D *
60/90.3	GAC TAC GTG GCG CTG GAA GGG ATG TCG TTCT CAG CAG TTC TCQ GGC GCA GCG GGC CGC CGT CTC ATT TGA D Y V A A L E G M S S Q Q C S G A A P A P G A P L I *
120.6	GAC TAC GTG GCG CGC CTG GAA GGG ATG TCG TTCT CAG CAG TTC TCQ GGC GCA GCG GGC CGA TCT GAC TGA D Y V A A L E G M S S Q Q C S G A A P A P S D *
150.5	GAC TAC GTG GCG CGC ATT TGA D Y V A A I *
120.3	GAC TAC GTG GAT CTG ACT AAA TCT TAG D Y V D L T K S *
chk typ 1	----- C S G A G N K L I Q Q H L L V I T F V P F I I L G Q L Q G *
chk typ 2	----- C S G A V S P E L C F Q K R *

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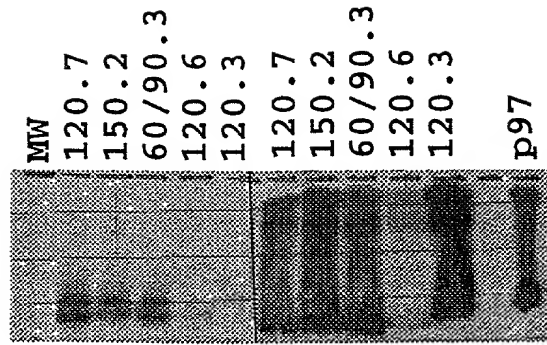


Figure 12c

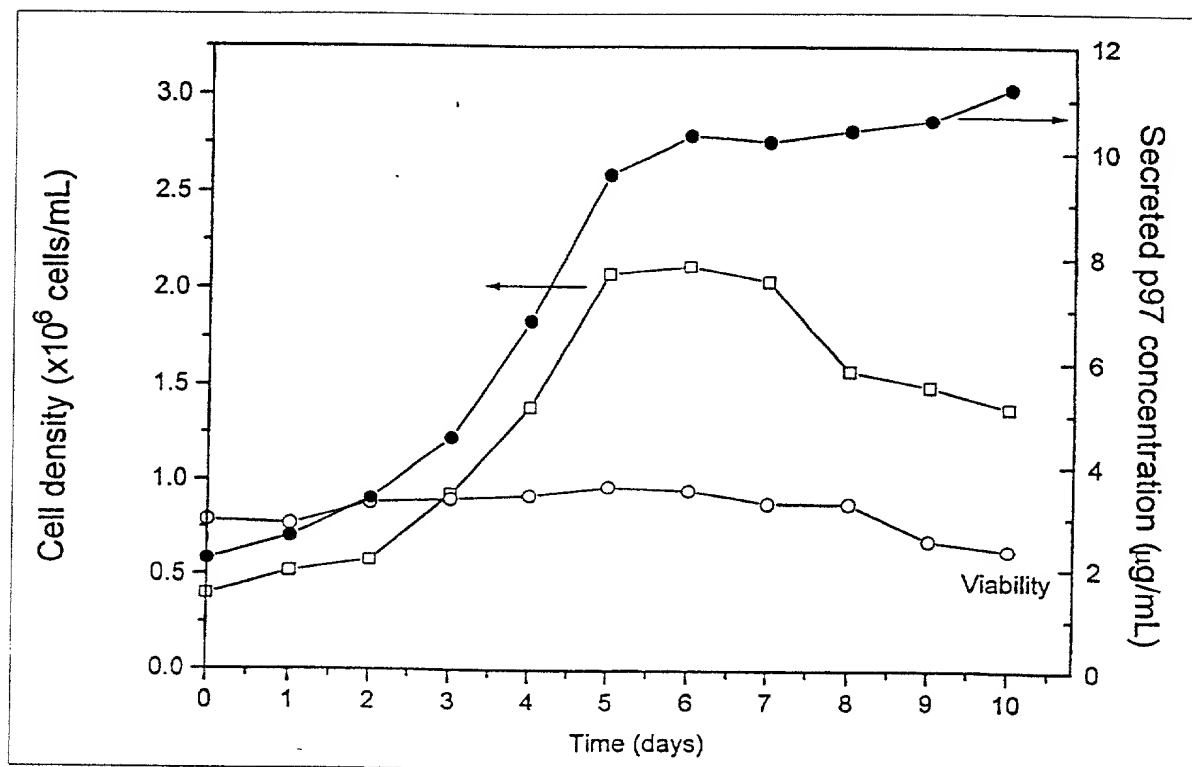


Figure 12d

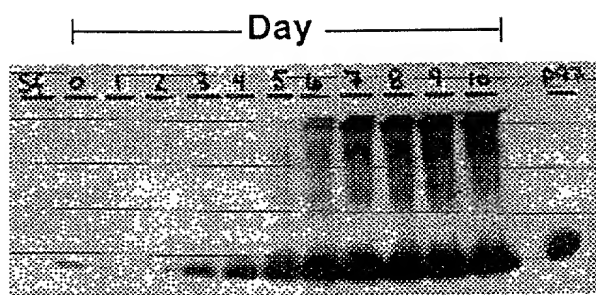


Figure 12e

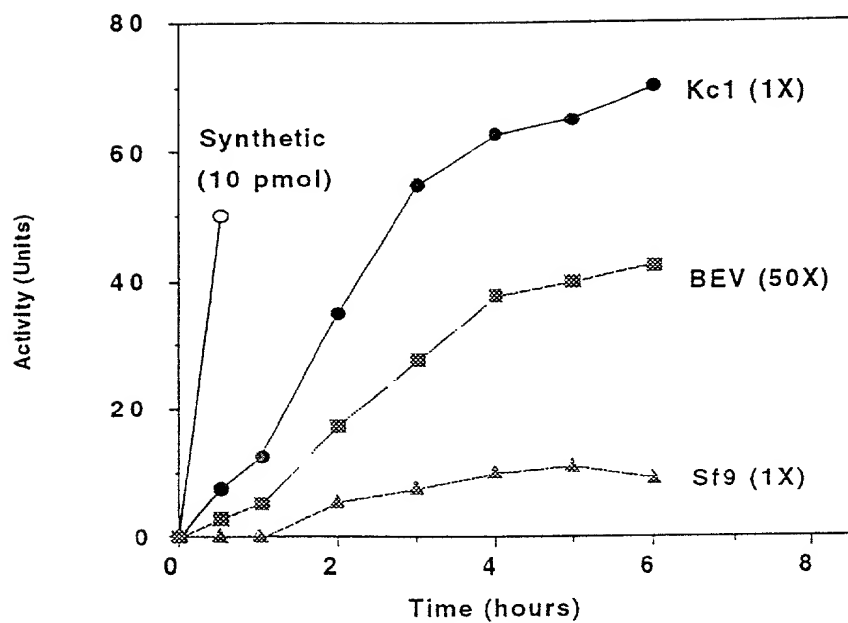


Figure 13a

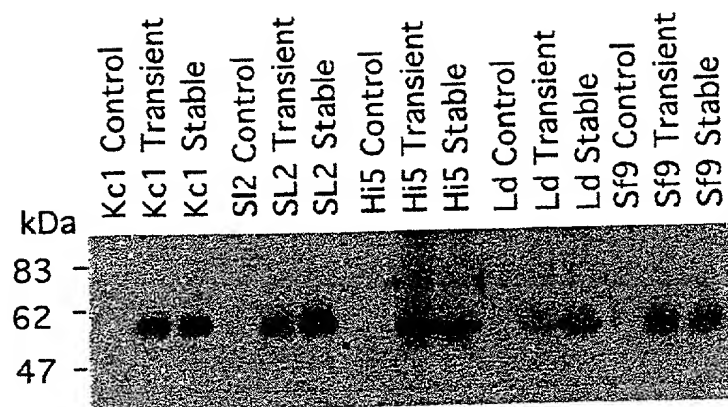


Figure 13b

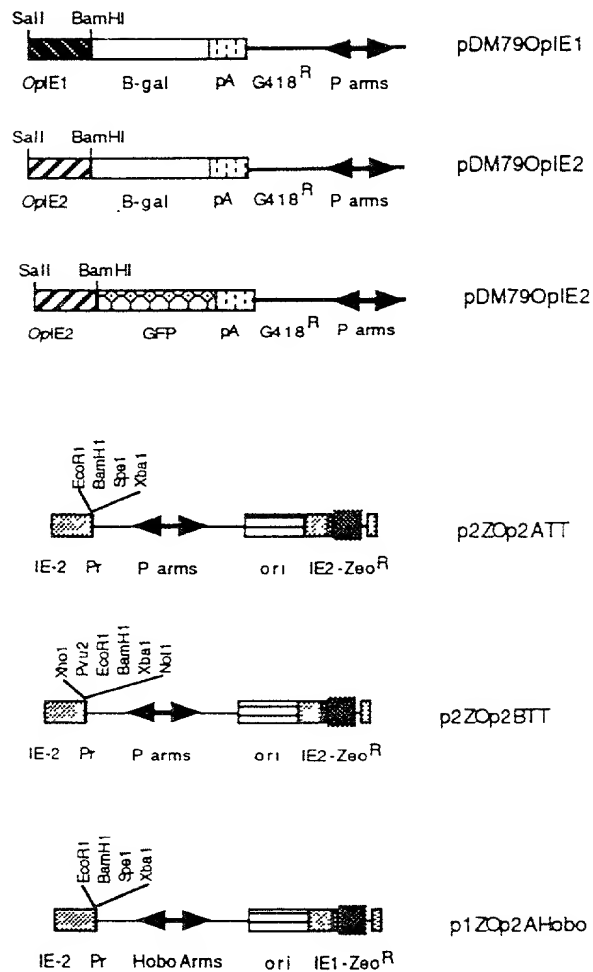
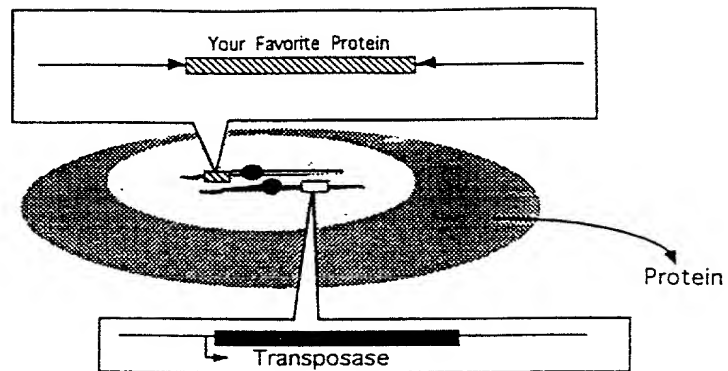
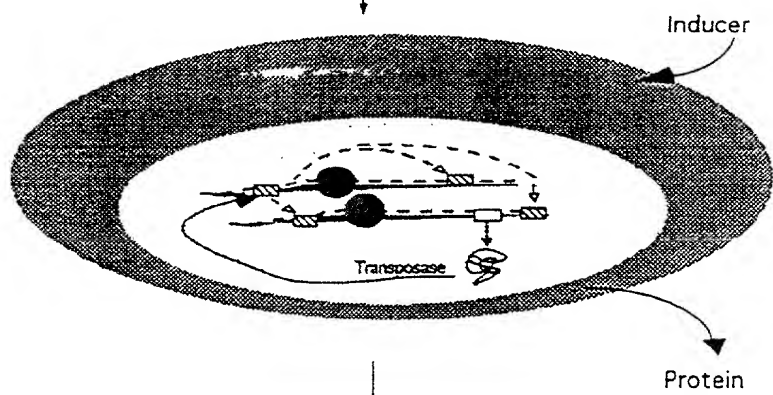


Figure 14



Activation of transposase results in gene amplification



More copies of the gene are expressed

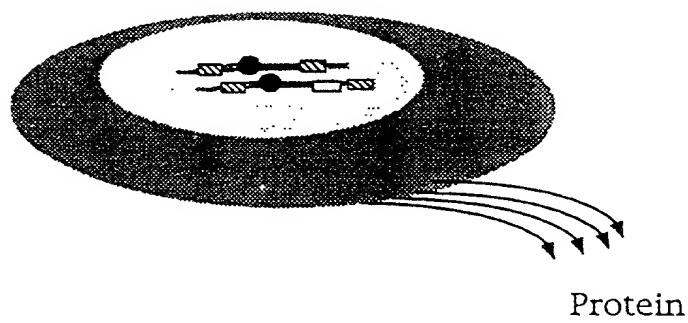


Figure 15



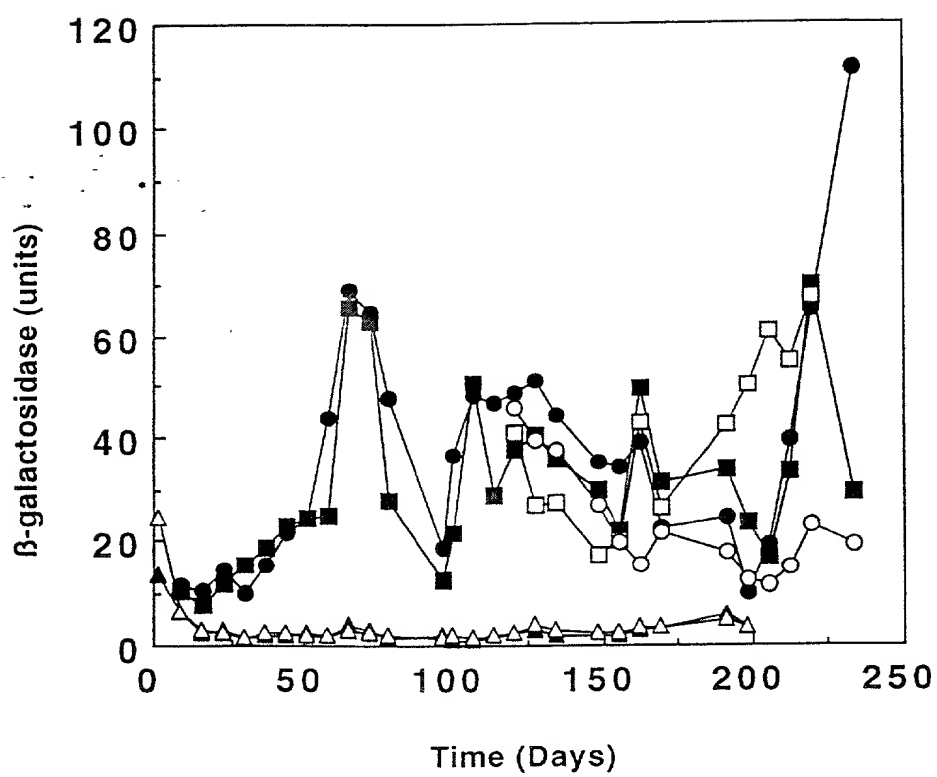


Figure 16a

5' P-element rescue

pDM79

CGACGGGACCACCTTATGTTATTTTCATCATGGGCCAGACCCACGTAGTCCAGCGGC...

79-2 Xho.6

CGACGGGACCACCTTATGTTATTTTCATCATGCTCGAACCAACGAGAGCAGTATGC...

79-2 Xho.4

CGACGGGACCACCTTATGTTATTTTCATCATGGTACAGACATCTACTTCCCCCGCT...

79-1 Sph.1

CGACGGGACCACCTTATGTTATTTTCATCATGATCTTGCGCTTTAAAATGTGGAGTC...

3' P-element rescue

pDM79

CGACGGGACCACCTTATGTTATTTTCATCATGGTCTGGCCATTCTCATCGTGAGCTT...

79-2 kan.3

CGACGGGACCACCTTATGTTATTTTCATCATGAGCCAAACAGAAAGCAGAAAAGCTC...

79-2 kan.2

CGACGGGACCACCTTATGTTATTTTCATCATGGCCTGACCTAAGCAGATTTGACTGC...

79-2 kan.1

CGACGGGACCACCTT CAACGCTACCTAATCTTAAGAACCA...

consensus

GNCYRRAC

Figure 16b

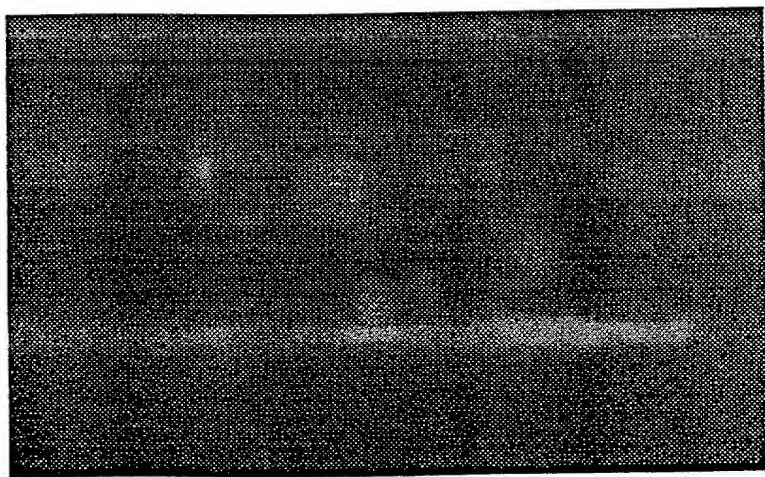


Figure 17